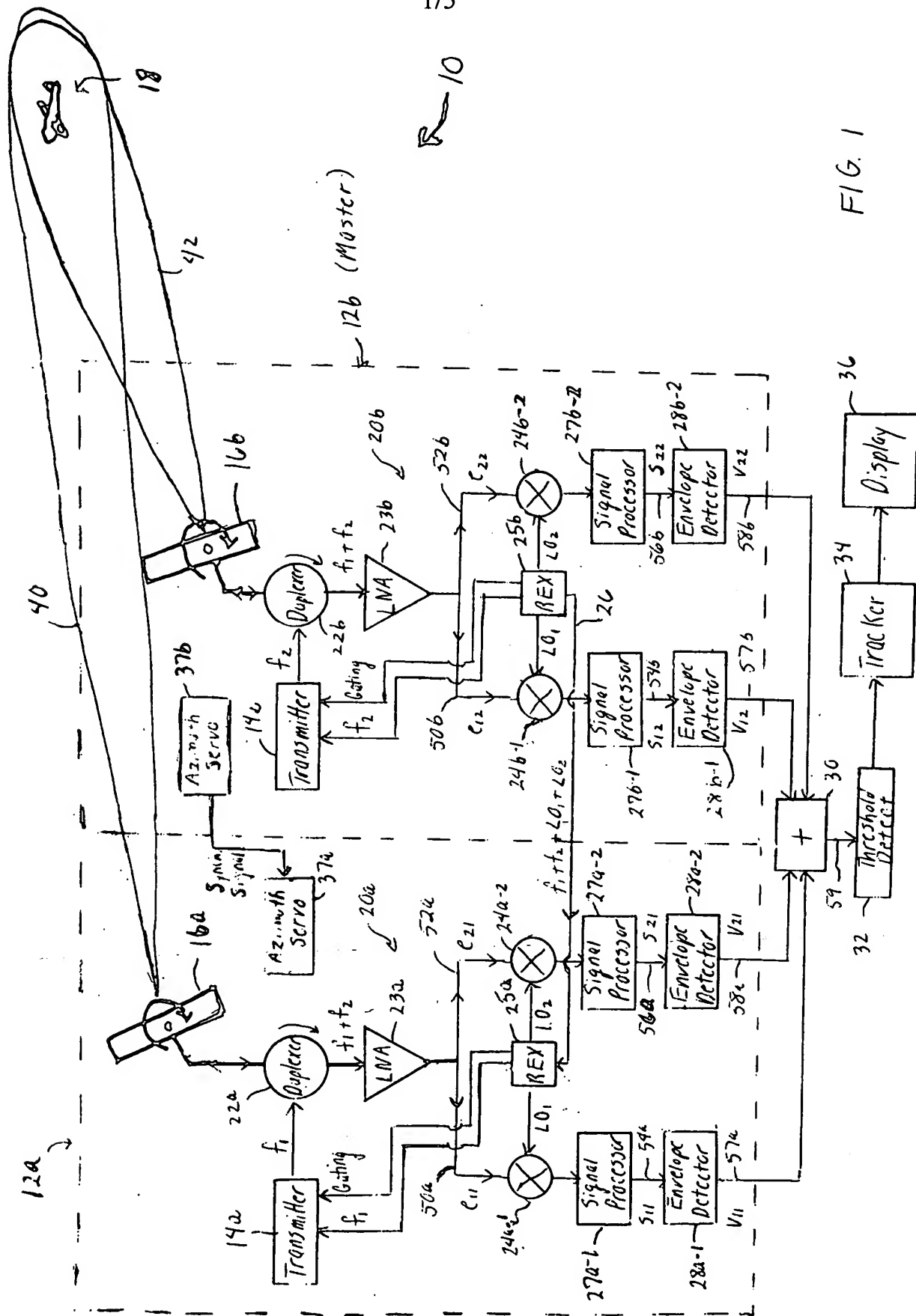


FIG. 1



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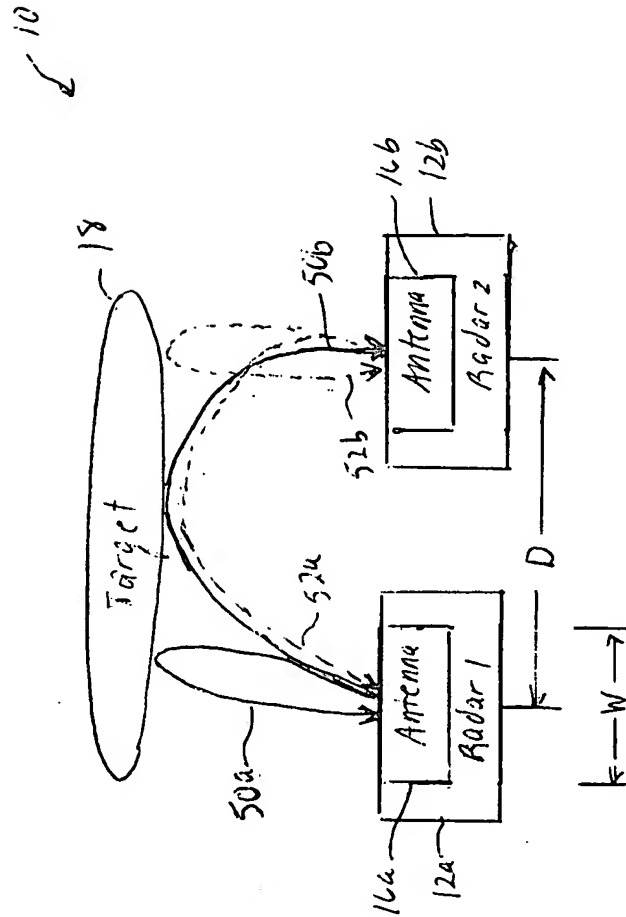


FIG. 2

MULTIPLE RADAR COMBINING FOR INCREASED RANGE,
RADAR SENSITIVITY AND ANGLE ACCURACY

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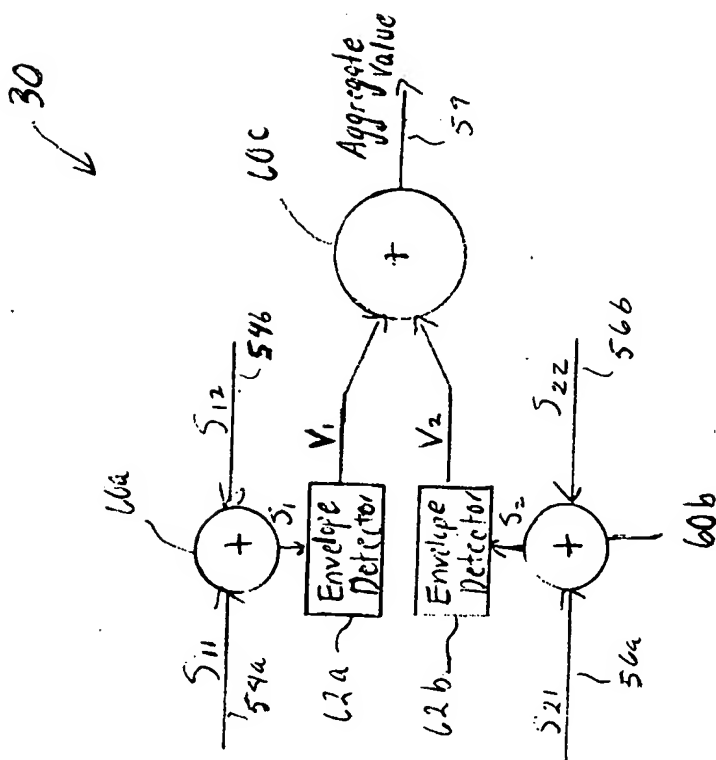


FIG. 3

MULTIPLE RADAR COMBINING FOR INCREASED RANGE, RADAR SENSITIVITY AND ANGLE ACCURACY

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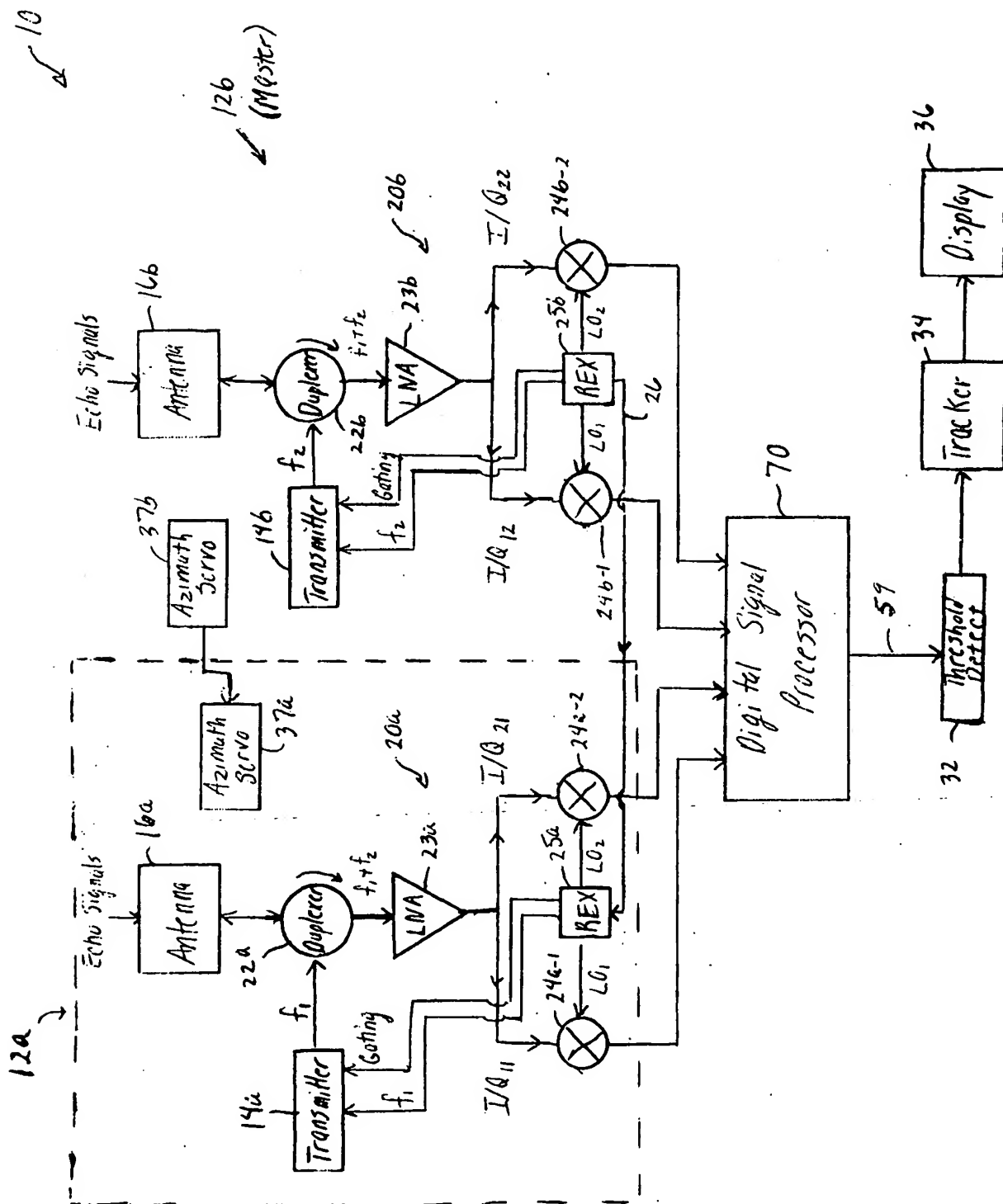


FIG. 4

MULTIPLE RADAR COMBINING FOR INCREASED RANGE,
RADAR SENSITIVITY AND ANGLE ACCURACY

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Mode	Carrier Frequencies for Radar 1 (f_1) and Radar 2 (f_2)	Coherent or Incoherent on Transmit	Receiver Processing of S_{11} , S_{12} and S_{21} , S_{22}	How Waveforms Transmitted	Type of Target	SNR Sensitivity Improvement (dB)
Search/Track	$f_1 \neq f_2$	Incoherent	Incoherent (as shown in FIG. 1)	Simultaneously	Non-fluctuating	~ 6
Search/Track	$f_1 \neq f_2$	Incoherent	Coherent + Incoherent (as shown in FIG. 3)	Simultaneously	Non-fluctuating	~ 6
Track	$f_1 = f_2$	Coherent	Coherent	Simultaneously	Non-fluctuating	~ 9
Track	$f_1 = f_2$	Coherent	Coherent + Incoherent	Simultaneously	Non-fluctuating	~ 9
Search/Track	$f_1 = f_2$	Incoherent	Incoherent	Sequentially	Non-fluctuating	~ 6
Search/Track	$f_1 = f_2$	Incoherent	Coherent + Incoherent	Sequentially	Non-fluctuating	~ 6
Search/Track	$f_1 \neq f_2$	Incoherent	Incoherent	Simultaneously	Swirling-II	8.7

FIG. 5